

### Hanford tank cleanup crawler demonstrated

Geoff Tyree, CH2M HILL Hanford Group

Preliminary demonstrations of a new remote-controlled cleanup machine are under way in the simulated waste tank at the Cold Test Facility. Called the Tank Crawler, the machine is a sturdy and agile 1,300-pound system that looks like a small bulldozer with treads and a folding blade.

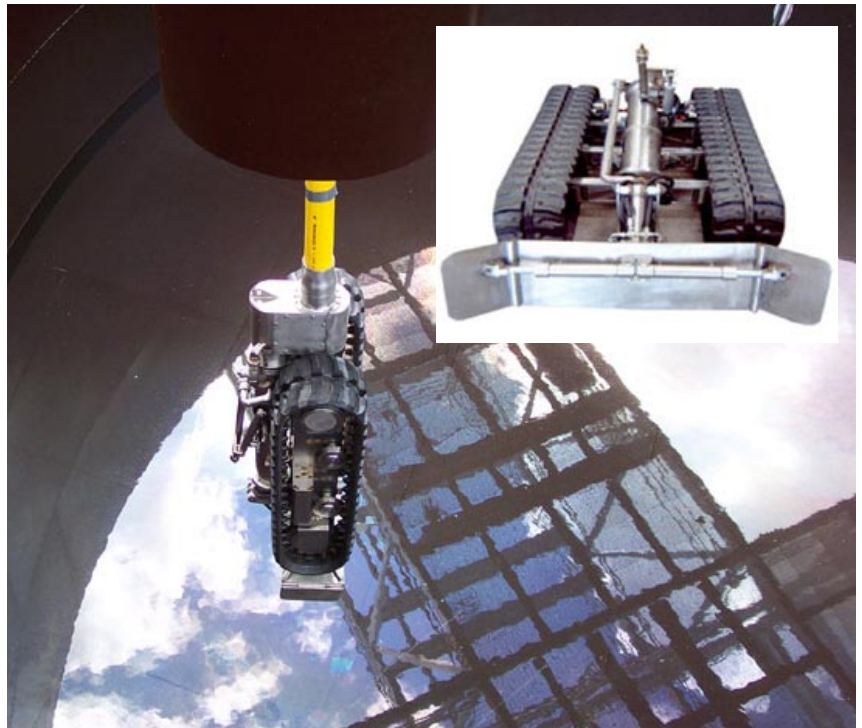
With the push of a button, hydraulics fold the crawler to just 27 inches wide, narrow enough to enter a tank through a 36-inch-wide riser that has been fitted with a protective sleeve. Once inside the tank, the crawler will pump and push its way through thick sludge, moving the waste toward a central pump that will transfer the contents of the tank.

Working with the Office of River Protection, CH2M HILL Hanford Group is developing methods for removing solid waste from Hanford's single-shell tanks. Most of the liquid waste has been moved from these older tanks to newer, safer double-shell tanks.

Methods are being developed to remove the remaining solid waste — more than 31 million gallons by volume. That waste consists of sludge that looks like fine mud and dries very hard, plus saltcake, which is somewhat like wet beach sand but can dry to an almost rock-like consistency.

The challenge is to mobilize the sludge and saltcake with enough liquid to move it through pipes to newer tanks, while using as little liquid as possible to reduce the possibility of a tank leak. That's where the Tank Crawler comes in.

The crawler must be small enough to fit through a relatively narrow opening on top of the tank, agile enough to maneuver over an uneven waste surface and around obstacles in the tank, and durable enough to withstand the highly radioactive environment and a rigorous decontamination process. Remotely operated, the



**The Office of River Protection and CH2M HILL Hanford Group have begun preliminary demonstrations of the Tank Crawler in the simulated waste tank at the Hanford Cold Test Facility. The crawler is a remote-controlled in-tank vehicle designed to remove radioactive and hazardous waste from as many as 60 Hanford single-shell tanks.**

*Continued on page 2.*

## Hanford tank cleanup crawler demonstrated, cont.

mobile retrieval system will be lowered into a tank, where the crawler will push the sludge toward a specially designed vacuum pump. A pump and spray mechanism on the crawler will help the in-tank vehicle move through the waste.

In the coming months, the crawler will undergo demonstrations with simulated sludge waste in the large simulated waste tank at Hanford's Cold Test Facility. The first test will be conducted with mud that is similar in particle size and viscosity to sludge tank waste.

"We are working toward accelerating the retrieval of waste from Hanford tanks with innovations such as the Tank Crawler," said Joel Eacker, CH2M HILL Hanford Group vice president of Projects. "Using simulated waste in this tank, we will put the crawler through its paces and prepare it for real tank cleanup work."

The crawler has already undergone some preliminary factory testing. One test included pushing around a 600-pound container of concrete. Another included wrapping the crawler up in steel tape to simulate its ability to break up the tangles of debris from previous operations in a tank, including discarded lengths of metal tape used to measure tank levels.

Single-shell Tank C-104 is currently scheduled for the first deployment of the crawler by 2005. This tank was selected because it has not leaked in the past and it contains the most contaminants of concern for their potential long-term health risks. The crawler is designed to be capable of retrieving sludge waste from as many as 60 single-shell tanks.■

# New signs posted on Hanford shore

Nancy Myers, *Bechtel Hanford*

## Public protected by additional signs posted along Columbia River

Beginning this fall, bright yellow signs with black lettering will be posted along the Hanford shoreline. The 4-foot-by 8-foot signs in English and Spanish will be posted where hazards are known to exist or cleanup is under way. They will warn boaters that portions of the Columbia River shoreline along Hanford's 100 and 300 Areas may contain hazardous.

The signs provide a telephone number for the additional information, and an information sheet is available to interested parties.

The signs read:

WARNING: HAZARDOUS AREA

DO NOT ENTER

Area May Contain Hazardous Soil and Water

River users along the Hanford Reach are reminded that overnight camping along the shore is not permitted, nor is shoreline access above the high-water mark.

New warning signs also are being placed along main roads in the 100 and 300 Areas to warn the public that the area may contain contaminated soil and only authorized personnel are allowed.

Bechtel Hanford is posting the signs at the direction of the Department of Energy Richland Operations Office and as a requirement of the *Site Wide Institutional Controls Plan for Hanford CERCLA Response Actions*, issued in July 2002. The plan identifies institutional controls for Hanford's cleanup actions under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA).

Institutional controls are designed to protect workers and the public from potentially hazardous substances. Controls include restrictions on activities and access to land, groundwater, surface water, waste sites, waste disposal areas and other areas that may contain hazardous substances. ■

## Sept. 11 photo album:

# Hanford remembers victims, honors heroes

On the one-year anniversary of the terrorist attacks on Sept. 11, 2001, the events of that day were remembered with respect and sadness by Hanford employees. In ceremonies throughout the Hanford Site, the 9-11 victims and heroes were honored in song, in spoken tributes, in gestures of patriotism and solidarity, and even in silence.

These are just a few of the photos we captured that day — much like the images recorded all across the United States as the nation came together in prayer and remembrance.

Nothing can or should erase the memory of that day. But, by coming together in support of those directly affected by 9-11, we have become a stronger nation with a stronger resolve to protect our freedoms.



**Above and below: A ceremony at the 200 Area Central Fire Station included the rollout of firefighting apparatus, the sounding of sirens and a recognition service.**



**At the Waste Sampling and Characterization Facility, employees met at the flag-pole for a moment of silence in honor of the 9-11 victims. Facility manager Jennifer Nuzum gave a brief tribute, PNNL's Pam Kinsey sang the National Anthem, and Bob Meloy of Fluor Hanford sang "America the Beautiful."**



Sept. 11 photo album:

## Hanford remembers victims, honors heroes



Employees who gathered at Stevens Center on Sept. 11 are reflected in the windows of one of the buildings. Stevens Center landlord George Garlick had a new flagpole installed on one of the roofs, and it was inaugurated that day with a flag flown at half-staff.



Musician Chris Loid sang patriotic songs for the Stevens Center ceremony, and also played taps on the trumpet in remembrance of the Sept. 11 victims.



02090019-227df LMIT Photography



02090019-222df LMIT Photography

Lockheed Martin Information Technology employees held flash cards to spell out a message of hope in an early-morning ceremony. LMIT's Frank Armijo, who was near the Pentagon at the time of the attack, shared his memories of that day. LMIT also donated time and resources to the Tri-Cities Memorial Ceremony. A technical excellence award has been established in honor of one Lockheed Martin employee who lost his life at the Pentagon.

# Help by donating to the 'Skylar Fund'

Skylar, the 9-year old son of two Fluor Hanford Spent Nuclear Fuel Project employees, Nick and Tami Collins, is now in California having his fifth open-heart surgery. Skylar was born with a heart defect that made successive surgeries necessary as he grew. His condition is so rare that the last two surgeries had to be performed at a special hospital in California, imposing additional financial burdens on his parents.

Hanford employees have helped support Skylar's family through the last two surgeries with both the transfer of vacation hours and financial donations to defray the expenses of extended stays in California. The SNF Project has held numerous potlucks and other fundraisers, gathering nearly \$6,000 to assist Skylar's family.

Hanford Site employees have previously transferred many hours of vacation to Skylar's parents. Due to complications and blood clots, his parents are still in California while Skylar has further surgery.

To transfer vacation hours to Tami Collins, complete a PTB/Vacation Transfer Request Form (Site Form A-6002-807) and send it to Colleen Angel at Fluor Hanford SNF Project Human Resources, S2-45. Time should be transferred in one-hour increments.

If you care to donate financial assistance, please send checks made out to "The Skylar Fund" to Carol Clark at mailstop X3-71. Checks from off site can be sent to Carol at Fluor Hanford, P.O. 1000, X3-71, Richland, WA 99352. 6 ♦

# Automated external defibrillators can help save lives

Karen Welsh, *Fluor Hanford*

With the upcoming Oct. 12 American Heart Association Heart Walk (an annual walk-a-thon to help raise funds to combat heart disease and stroke), it's a good time to reflect on the dangers of cardiovascular disease and its sobering statistics.

Did you know that fewer than 5 percent of out-of-hospital cardiac arrest victims survive a heart attack? Another shocking fact is that sudden cardiac arrest takes more than 250,000 lives each year. In Washington state alone, cardiovascular diseases accounted for more than 16,000 deaths in 2000, or 37 percent of total deaths for that year. In Benton County alone, 346 people died as a result of coronary heart disease.



Automated External Defibrillator units such as the one pictured at right are now in place at several Hanford Site facilities. They can be requested through the Fluor Hanford AED Program.

The American Heart Association has a term for the critical actions necessary after an individual experiences cardiac arrest — the “chain of survival.” The single most important critical step is that cardiac arrest victims must receive care *immediately* or their chances of survival plummet.

Every minute counts, literally. According to the American Heart Association, the chance of surviving drops about 10 percent each minute after cardiac arrest occurs. This is why access to automated external defibrillators, or AEDs, can help to save lives — approximately 50,000 lives each year!

In September 2000, personnel at the Fluor Hanford-operated Plutonium Finishing Plant were the first to recognize the need for AEDs in the workplace. PFP led the way in the purchase, training and implementation of the first AEDs on site.

The process was first initiated through the compilation of a requirements document (HNF-RD-10648) to assist PFP and future projects in acquiring AEDs for their organizations. By April 2001, the Fast Flux Test Facility began the task of obtaining AEDs, and by July 2002, 222-S Laboratory personnel acquired their first automated defibrillators.

Requests for the defibrillators are coordinated through the Fluor Hanford AED Program coordinator, Cliff Ledford. Ledford is also responsible for ensuring that facilities and projects have the resources to implement a successful program and to disseminate current information, lessons learned, equipment recalls or any program requirement changes in regard to AEDs. In addition, he also provides technical assistance as needed.

The Hanford Fire Department provides the initial training and refresher training on the use of AEDs to all designated volunteers or responders. The American Heart Association also furnishes training guidance through its “Heartsaver AED Program,” which keeps volunteers qualified in both AED and cardio-pulmonary resuscitation through a two-year retraining cycle.

For more information on obtaining an AED for your organization, or any information regarding Fluor Hanford's AED program, you may contact Ledford at 373-5214 or via e-mail.

For further information on this year's Heart Walk, you may contact me, Karen Welsh, at 376-2151, Lynn Tegeler at 376-4625 or Trish Simon of CH2M HILL Hanford Group at 372-1139. ■

# Safety glasses required in tank farms

Starting Monday, Sept. 30, safety glasses with side shields will be required in tank farms, maintenance shops and equivalent areas where operations or maintenance work is performed.

“The primary motivation behind this change was the desire to reduce eye injuries as much as possible,” said Richard DeBusk, safety manager for CH2M HILL Hanford Group, which has primary responsibility for managing the site’s waste tanks.

Within the past year, there have been five eye injuries primarily related to dust in the eyes of CH2M HILL Hanford Group employees in the tank farms. Two of these injuries were serious enough to be categorized as Occupational Safety and Health Administration recordables.

“Many of these injuries could have been eliminated if employees had been wearing safety eyewear,” said DeBusk. Safety eyewear, including prescription safety glasses, is provided to CH2M HILL employees. Employees should consult with their managers if specialty safety eyewear is needed. ■



# Flu season is just around the corner; are you prepared?

Judi Staley, RN

*Hanford Environmental Health Foundation*

Even though we are still enjoying warm fall days, winter is just around the corner. Short days and cold weather will bring us indoors, where germs such as cold and flu viruses readily circulate and cause illnesses in susceptible respiratory tracts. Since viruses cannot be treated with antibiotics, we must generally resign ourselves to put up with the aches and pains of a respiratory illness at least once or twice a year.

In most situations, aside from the frustration of being uncomfortable, cold symptoms can be managed successfully with over-the-counter antihistamines and decongestants for the 7-10-day duration of the illness.

Unfortunately, the influenza virus is not dealt with as easily. Each year, approximately 20,000 people in the United States die from complications related to influenza. The latest information from the Centers for Disease Control indicates that in 1999, influenza and pneumonia were identified as the seventh leading cause of death among all ages in the United States.

The good news is that we do have some control over how susceptible we are to the miseries of the common cold and dangers of influenza. The most important and reliable defense is good hand-washing technique. Germs, which can live on surfaces for several hours, are easily transferred from hands to respiratory tracts. The second most important step in avoiding influenza is to get a flu shot.

Hundreds of flu viruses circulate throughout the population. The three most prevalent strains are identified each year by the CDC, and a vaccine is developed to protect against those strains. This year the vaccine will protect against the following three viruses: A/Moscow/10/99; A/New Caledonia /20/99; and B/Hong Kong/330/2001.

According to the CDC, availability of the flu vaccine should not be a problem this year. The Hanford Environmental Health Foundation will again provide the shots free to eligible, badged site employees. The clinics will be located in various areas on the site and run for three weeks beginning Oct. 28.

In addition to hand washing and getting a flu shot, a healthy lifestyle — including regular exercise, proper nutrition, staying hydrated and getting adequate rest — will go a long way toward keeping your immune systems strong to ward off invading viruses and bacteria.

So start thinking about how to stay healthy this winter. Maintain or develop healthy habits and plan to get a flu shot. The HEHF flu shot clinic schedule will be publicized in the *Hanford Reach* in an upcoming issue.

To obtain information on self-care strategies for preventing and managing colds and flu or to schedule a 30-40 minute "Self-Care for Colds and Flu" presentation for your work group, call HEHF Health Education Services at 373-3729 or send an e-mail message to \*HEHF Health Education Services. ■



# Ice age floods, basalts helped form Columbia River system

To geologist Steve Reidel, a rock is not just a rock. Rocks like basalt, which cover the entire Pacific Northwest stretching from Spokane and Boise to Portland and the Willamette Valley, tell a rich geologic story covering millions of years.

Next month, Reidel, a researcher at Pacific Northwest National Laboratory, will give a public lecture on the role of flood basalt and the ice-age floods in the geologic evolution of the Columbia River system. His presentation is scheduled for Oct. 2 at 7 p.m. in the Columbia Basin College Theatre in Pasco.

The talk is part of the Community Science and Technology Seminar Series co-sponsored by PNNL and CBC. The series, launched in 2001, features a broad range of speakers who discuss the new, the innovative and the awe-inspiring changes taking place in our world. This series is free and open to the public.



Reidel

According to Reidel, the geologic “floor” of the Pacific Northwest region consists of basalt laid down more than 6 million years ago. Immense lava floods swept over more than 100,000 square miles of Washington, Idaho and Oregon. The basalt is estimated in excess of two miles deep in many areas.

Then, about 2 million years ago, ice-age glaciers from British Columbia continued to fashion the geology of the Northwest. Glacial ice and debris formed great dams in the mouths of valleys and enormous lakes materialized behind them.

The largest glacial lake ever known was formed in present-day Idaho and Montana. Lake Missoula was formed behind a towering 2000-foot-high ice dam. The waters of Lake Missoula burst the dam on several occasions, causing the greatest floods known to occur anywhere in the world. The channeled scablands northeast of the Hanford Site were formed by the erosion and depositing effects of massive flooding.

“Although the Columbia and Snake Rivers appear to have been here since time began, they have had a long and complex history to reach their present locations,” Reidel said. “Eruptions of the largest lava flows known on earth, combined with tectonic forces, channeled the rivers into the central Columbia Basin. The ice-age floods completed the final stage of their evolution, giving us the Hanford Reach.”

Reidel is one of the most knowledgeable experts on the geology of the region, having spent more than 30 years doing geologic research for WSU and DOE contractors, including Rockwell International, Westinghouse Hanford and PNNL. He has conducted a variety of research projects for DOE, other government agencies and private industry.

These projects include research on the Groundwater Vadose Zone Integration Project for DOE and the Gas Storage Project for the Pacific Gas Transmission Company. Reidel, along with more than 100 scientists with a background in geology at PNNL, are using conventional and innovative tools such as computer modeling to explore and characterize the geology of the region.

Reidel also is an associate professor in the Department of Geology at Washington State University in Pullman, a member of the Washington State Advisory Committee on Geologic Mapping, a member of the Geological Society of America, and a member of the International Association of Volcanology and Chemistry of the Earth’s Interior. He also writes a column for the *Tri-City Herald* on local geology. ■

# Safety goes hand in hand with good thinking

Deb Severin, *Fluor Hanford*

Sometimes it's what we think as much as what we do that gets us into trouble. The difference between a good thinker and a poor one isn't necessarily the amount of brains that each possess. It simply may be that the first one tries to think for himself and the second does not. Thinking doesn't come from the amount of education a person has. Knowledge does not come from books; it comes from human observations and deductions. That's how it got into the books in the first place.

Have you ever found yourself thinking any of these accident-provoking thoughts?

- "If I 'hurry up' I can get to work earlier."
- "I won't bother with the lighting. I can see in the dark and won't fall."
- "I'm okay to walk. I've only had a couple of drinks."
- "Nothing is more important than getting to this meeting on time!"
- "I can't stand people who walk too slow. I just can't wait to get around them."
- "If he/she doesn't get out of my way, I'm going to run around them!"
- "I've been using my hands for years and haven't had an accident yet."
- "I know how to use that tool, so I am sure I can handle a shortcut."

Every company is on the lookout for employees who aren't afraid to think and solve problems. Start with these:

## Focus

A good safety attitude means you focus on the task. How well are you concentrating on the job? If you have other things on your mind, you may be distracted. And if you are bored, an accidental slip is easy.

## Strength

No, this doesn't mean muscle strength. What it means is the strength to do the right thing, even when you are under pressure to take shortcuts. A good safety attitude means you have the strength to stick with the procedures.

## Time

A good safety attitude means taking the time to do the job correctly and using the right personal protective equipment. Is saving a few minutes worth a lifelong injury? If you add up the cost of lost time resulting from injuries, it is obvious that it is cheaper to do the job the right way the first time.

## Responsibility

If you care about yourself and your co-workers, you will take responsibility even when a task "isn't my job." A good safety attitude means thinking of yourself as part of the team.



*Continued on page 12.*

## Safety goes hand in hand with good thinking, cont.

### Risk

We are all at risk. But you can weigh the risks of performing a job a certain way. A one-in-a-thousand risk is not worth the possible cost. A good safety attitude means being smart and avoiding taking unnecessary risks. Making a good safety attitude a habit affects everyone around you. Your home life and working relationships are positively influenced.

If you have ever had a hand injury such as a serious cut or fracture, you have some idea how painful and inconvenient it can be. To come up with a list on how to protect your hands in each and every situation would be impossible. The list would be never-ending.

Before you begin a project, take up a tool, or start a piece of equipment, think of the accident that *can and will* happen unless you make sure that it doesn't. Apply the "what if" criteria of safety to what you are doing: What if the knife slips while I am stripping this wire? Will I cut myself? What if the screwdriver slips off this stubborn screw I'm trying to remove from this box in my hand? Will I punch the screwdriver through the palm of my hand? What if that pallet of material falls off the forklift while I am holding this gate open? Will my hands be crushed?

"An accident will find a wandering mind." Please be safe. ■



# Take the Security Ed administrative challenge

Remember that the “administrative challenge” is an important part of your daily security responsibilities.



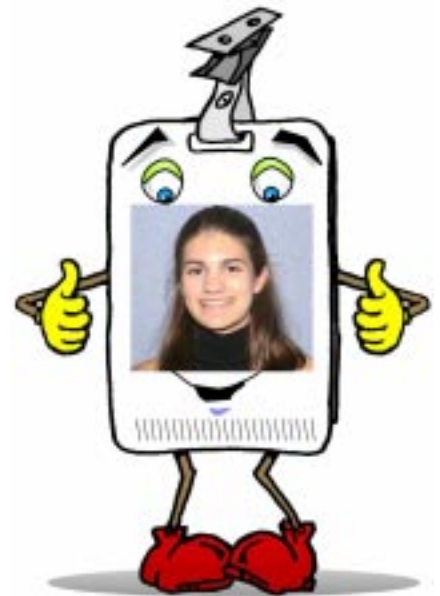
If you encounter an unescorted person with a red security badge indicating that the bearer is a foreign national, what do you check or review in order to validate that the person can be in the location?

- A. Check with Physical Security.
- B. Check with your manager.
- C. Check the individual's yellow credential card for approved buildings and hours for unescorted access.
- D. Check the Automated Badge Request program for authorization.

Do you know the answer? Circle the one thing you should check to validate that a foreign national is allowed unescorted access and then clip this article, add your HID number, and send to Yolanda Sanchez at L4- 09, or send her an e-mail and in the subject line include “Ed’s FN Challenge” and your answer. Prizes will be awarded to randomly drawn correct entries. The names of prizewinners and the correct answer will appear in a future *Hanford Reach* article soon.

Submitted By \_\_\_\_\_ Hanford ID No. \_\_\_\_\_

Mailstop \_\_\_\_\_



**Congratulations to Jackie Dale of Bechtel Hanford, Inc., the winner of the Sept. 3 Security Ed Challenge. Dale correctly identified that digital cellular phones are also vulnerable to unauthorized monitoring. She received a stainless steel vacuum bottle for her effort. Please be aware of intercept vulnerabilities whenever using a cellular or wireless communications device.**

## Picture Pages



**MUCHO SUCCESSFUL SEMINAR:** Manuel Chavallo of Mundo Communications Network, right, describes some of his company's prepaid phone cards while Mindy Strong of Pacific Northwest National Laboratory and Roy Larson of Northwest Hispanic Research and Consulting help hold up displays. Chavallo, Larson and Christina Norberg of State Farm Insurance spoke at Mucho Dinero 2002, a Battelle-sponsored seminar about Hispanic business marketing on Sept. 13 in Pasco. The seminar attracted 60 people from Washington and Oregon who learned about multicultural marketing strategies and Hispanic business expansion. For more information, see the Web site <http://www.pnl.gov/edo/fiesta.stm>.

# Reporting close calls prevents accidents

Deb Severin, *Fluor Hanford*

Have you, a co-worker or a family member ever experienced a close call and remained silent and then heard that someone had been hurt? Wouldn't it be great if we had that information available to us?

In real life there is a danger in brushing off accidents that do not hurt, harm or damage. When these close calls happen we should immediately run the red warning flag up the pole. A non-injury close call is like a 104-degree fever; it's a positive sign or symptom that something is wrong. If you think about it, a "first-aid injury" is the close call for a recordable or serious injury. It is estimated that for every serious injury or event, there are 600 close calls in the workplace.

The Fluor Hanford Employee Zero Accident Council launched the Close Calls Program on July 23 to the Functional Integrator Groups. We selected the Mr. Magoo character as the epitome of close calls. Since that time, the Plutonium Finishing Plant has requested to be part of the program, and the Central Plateau Project will incorporate this program into its Safety Improvement Plan for next fiscal year.

How can you help? Report each and every close call using the electronic form available at <http://apweb02.rl.gov/phmc/osh/>. You also can report a close call on paper by completing a reporting form available in the Federal Building lobby or from me, Deb Severin, at AO-23. Send me the completed forms. Whether you send in your report electronically or by hard copy, you may remain anonymous. You can also discuss close calls at your safety meetings.

If you are involved in or witness a close call, report it. Remember, your report may prevent the next person from getting seriously hurt. At the same time, it's important to remember that just reporting the close call isn't enough — you can make the situation better by taking action to fix or control the problem. To remain injury free, everyone must practice smart safety measures at work, at home, while driving and during recreational activities.

Complete the word search on the next page. Those who submit the first 150 complete and correct word searches to me, Deb Severin, AO-23, will receive their own Mr. Magoo glasses. "Help others to see; participating is the key." ■

*Continued on page 16.*



# Close Calls Wordfind

Circle the following words in the puzzle at left. The letters may appear in any direction.

ANONYMITY  
BILL OF RIGHTS  
CLOSE CALLS  
COMMUNICATION  
EZAC  
ELECTRONIC FORM  
INJURY FREE  
KNOWLEDGE  
LET'S THINK  
MISTER MAGOO  
PARTICIPATE  
PREVENTING  
RECREATION  
SAFETY MEETINGS  
SAFETY SUMMIT  
TAKING SHORTCUT  
TYPE OF EVENT  
UNSAFE ACTS  
WORKER SAFETY

E S G N I T E E M Y T E F A S  
L Y T E F A S R E K R O W L U  
E V C Z S K Y T I M Y N O N A  
C N O A M I S T E R M A G O O  
T B M C T N E V E F O E P Y T  
R G M C C G N I T N E V E R P  
O P U N S S T C A E F A S N U  
N A N D N H E G D E L W O N K  
I B I L L O F R I G H T S X X  
C B C E E R F Y R U J N I P M  
F K A L E T ' S T H I N K S K  
O F T F V C L O S E C A L L S  
R T I M M U S Y T E F A S G P  
M F O X E T A P I C I T R A P  
I X N O I T A E R C E R I O M

Send completed  
Wordfind to:  
Deb Severin, AO-23

Submitted By \_\_\_\_\_

Mailstop \_\_\_\_\_



# Regular Features



## NEWSBRIEFS

### Use correct address to receive outside shipments promptly

Fluor Hanford employees on the Hanford Site — 100, 200, 300 and 400 Areas and other locations requiring a security badge to enter — who receive outside shipping from companies such as FedEx and United Parcel Service should use the correct Fluor Hanford receiving address to receive their shipments promptly. Make sure the shipping company has the following address:

FH employee name  
(509) 7-digit employee phone number  
Fluor Hanford, Inc.  
2355 Stevens Drive  
Area, Bldg. Name, Room No.  
Richland, Washington 99352

Fluor Hanford personnel at Shipping and Receiving sort the shipments received and deliver the items.

### PTB transfer for Gunkel-Knight

Doreen Gunkel-Knight, a radiological control technician for the Central Plateau Remediation project, has been approved to receive personal time bank-transferred hours. Gunkel-Knight's son was recently diagnosed with a brain tumor and is expected to receive treatment in Seattle. Fluor Project Hanford team employees who wish to transfer PTB hours to Gunkel-Knight can do so by completing a PTB/Vacation Transfer Request form (Site Form A-6002-807) and sending it to Don Buechler at S2-43. Time should be transferred in one-hour increments.

### PDF conversion tool available

Do you need to convert files to portable document format (pdf)? Fluor Hanford Contracts has an online tool available to do just that. The PDF Generator Tool is one of the online tools available for use on the FH Contracts Web site. The tool allows Hanford Local Area Network users to convert many different file types to pdf files, which can then be saved or distributed. To use the tool, visit the Fluor Hanford Contracts Intranet Web site at <http://apweb02.rl.gov/rapidweb/phmc/procweb/index.cfm?PageNum=159>.

Portable document format is a widely used file format created by Adobe to facilitate the task of sharing files. The format is commonly used on the Internet and in e-mail attachments. Recipients of a pdf file can view it using Adobe Acrobat PDF Reader which is available free from

<http://www.adobe.com> and on the Hanford Site in Software Distribution.

For more information about the tool, contact Fluor Hanford Contract Support via e-mail at ^Contract Support Services. ♦

## CALENDAR



### ACS meeting to feature chemistry researcher

The Richland Section of the American Chemical Society will sponsor a talk by Dr. R. Bruce King on "An Oxygen-17 NMR Study of Uranyl Hydrolysis and Gelation" at 7:30 p.m. on Sept. 24 at the Battelle Auditorium. King is regent's professor of chemistry at the University of Georgia, where his research interests range from synthetic organometallic chemistry, homogeneous catalysis, and applications of topology and graph theory to inorganic chemistry. A reception with King will follow the presentation. For more information, contact Janet Bryant at 375-3765, or visit the section's Web site at [www.pnl.gov/acs/](http://www.pnl.gov/acs/).

### NSBE meets tomorrow evening

The National Society of Black Engineers will meet on Tuesday, Sept. 24, from 5:30-6:30 p.m. in the Richland Public Library's Gallery Room. The NSBE is a growing international organization providing opportunities to pre-college and college students and professionals in developing mathematical and scientific skills. Contact Mozella Richardson at 371-0219 for more information.

### CREHST to sponsor tour of houses Sept. 28

The Columbia River Exhibition of History, Science and Technology sponsors a walking tour of "alphabet houses," homes built by the government in the 1940s to house Hanford Site workers. The tour of central Richland will begin at 9 a.m. on Sept. 28 and costs \$5 for CREHST members and \$7 for non-members. You must register in advance. Call CREHST at 943-9000 for more information.

*Continued on next page.*



## Regular Features

### CALENDAR continued

#### **Oct. 8 AQP/ASQ meeting.**

The Oct. 8 dinner meeting of the local Association for Quality & Participation and American Society for Quality organizations will be held at the Richland Shilo Inn and will feature Dr. Steve Marshall speaking about "Performance Measures, Measurement and Analysis." Marshall will share information about the importance of establishing performance measures and collecting and analyzing data to help identify trends and areas for improvement. Check-in and networking begin at 5:30 p.m., the buffet dinner is at 6 and the presentation is at 7. The cost is \$16 for AQP and ASQ members, \$18 for non-members and \$5 for the presentation only. Make your reservation before Oct. 3 by calling 547-6548, sending an e-mail message to [gates@3-cities.com](mailto:gates@3-cities.com), or registering via the AQP chapter's Web site at <http://www.3-cities.com/~gates/AQPQuest.htm>. Click on "What's Next" for additional information about the program, speaker and dinner menu.

#### **MACTEC team employees plan reunion Oct. 12**

All current and past MACTEC and MACTEC team employees are invited to a reunion on Saturday, Oct. 12, at the Hanford House. For more information contact Liz Hirsch at [EFHirsch@mactec.com](mailto:EFHirsch@mactec.com) or at 376-6404, or A.M. Sastry at 376-6410.

#### **ALARA Workshop scheduled for October**

The fourth annual Hanford ALARA Workshop will be held Oct. 21-23 in the Richland Red Lion Hotel. The workshop focuses on education and information exchange in the area of applied ALARA. All interested parties are invited to attend.

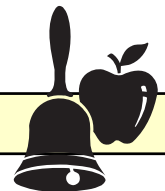
The workshop features presentations from subject-matter experts in the design of ALARA [as low as reasonably achievable] programs, development of ALARA techniques and technologies and the field-implementation of ALARA. Discussions are planned

in a variety of formats such as subject matter-expert presentations and facilitated working groups. A full listing of presentations and workshops is available at the following address: <http://www.hanford.gov/alara/pdf/papers.pdf>. These presentations cover areas such as dose and contamination control, waste minimization, mock-up training, protective clothing, work planning, conduct of ALARA programs, environmental ALARA, biological control, decontamination and decommissioning, lessons learned and new technologies.

In addition to the presentations and workshops, an on-site tour and vendor demonstrations will be available. Also planned are weekend and after-hours special events such as a golf tournament and a local winery tour.

The workshop has been granted approval for 32 continuing education credits from the American Academy of Health Physics and 8 maintenance points from the National Registry of Radiation Protection Technologists. For more information, including registration forms, consult the workshop Web site (<http://www.hanford.gov/alara/workshop.cfm>), or get in touch with the following contacts: for registration, Pat Barajas at 376-0560 or at [Patricia\\_S\\_Barajas@rl.gov](mailto:Patricia_S_Barajas@rl.gov); and for general information, Derek Thornton at 376-3318 or at [Derek\\_Thornton@rl.gov](mailto:Derek_Thornton@rl.gov). ♦

### CLASSES



#### **City University project management courses discussed Sept. 25**

Learn about the graduate, undergraduate and certificate courses in project management and business offered by City University on Sept. 25 at 5:30 p.m. at City University in Suite 202 at 303 Bradley Blvd. in Richland. To speak with an advisor, call 943-9887.

*Classes continued on next page.*

## Regular Features



### **CLASSES** **continued**

#### **MicroShield classes offered at HAMMER**

Project Enhancement Corporation will conduct beginning (offered

Oct. 2-3) and advanced (offered Nov. 6-7) courses for users of MicroShield at the Volpentest HAMMER Training and Education Center. MicroShield software is used for analysis involving gamma and X-ray radiation. It has been applied to problems involving shielding design, waste calculations, decontamination effectiveness, source inference, ALARA decisions, and many other situations where exposure of personnel or equipment is to be analyzed. The cost for each class is \$950. Contact Yvonne Miller at (301) 668 -7177 or at [yvmiller@pec1.net](mailto:yvmiller@pec1.net) to register for the classes.

#### **Environmental manager certification training**

Valcar Bowman of the National Registry of Environmental Professionals will teach the two-day Registered Environmental Managers Certification course Oct. 21-22 in Richland. Bowman normally teaches the course via satellite. Students can take the class as an initial certification class with the exam taken at the end. Students who have taken the course previously and passed the exam may take the course for re-certification. The \$595 cost per person includes the certification or re-certification fees. The class is a combined Registered Environmental Manager, Certified Environmental Auditors and Associate Environmental Professionals refresher and continuing education workshop.

Department of Energy Richland Operations Office and Office of River Protection employees may register through the Electronic Registration System at <http://www.rl.gov/otr/othome.htm> using course number MST310. Contractors are welcome to attend and may request a registration form by calling Karen Sonderman at 376-2415 or sending an e-mail message to [Karen\\_J\\_Sonderman@rl.gov](mailto:Karen_J_Sonderman@rl.gov).

#### **Mediation training course offered Oct 14-18**

The Benton Franklin Dispute Resolution Center is presenting a 40-hour Basic Mediation Training Course Oct. 14-18 from 8:30 a.m. to 5 p.m. at the Consolidated Information Center on the Washington State University Tri-Cities campus. This training is open to all who want to become mediators or gain a higher degree of conflict-resolution skill. The tuition is \$500 per person. This cost includes all training materials plus light breakfast, lunch and snacks each day. The registration deadline is Sept. 27. Contractors who are interested should contact the Dispute Resolution Center at 783-3325. Department of Energy Richland Operations Office and Office of River Protection personnel should follow the usual process for training requests using course number MST299. The class is being held the week of a federal holiday, so interested federal employees would need to arrange to attend on their day off. For more information, call the DOE Training Office at 376-2415.

#### **Technical document workshop offered Oct. 29-30**

The class, Constructing the Technical Document: Essential Strategies and Skills, will be offered Oct. 29-30 from 8 a.m. to 4:30 p.m. in the Snoqualmie Room of the NSB on the Pacific Northwest National Laboratory campus. The class will focus on techniques to effectively share research or products, address and affect the audience of the document, and fine-tune writing skills. Register early. Space is limited. For information, visit <http://workshops.pnl.gov> or contact Mary Wagner at [mary.wagner@pnl.gov](mailto:mary.wagner@pnl.gov) or at 372-4259. To register, contact Cory Rhoads at [cory.rhoads@pnl.gov](mailto:cory.rhoads@pnl.gov) or at 376-7157. ♦

*Features continued on next page.*

## Regular Features



**H**.anford **E**.mployee **R**.ecreation **O**.rganization

**PLEASE MAIL YOUR TICKET REQUESTS TO THE APPROPRIATE LISTED TICKET SELLER** — It saves the ticket sellers' time and your tickets will be sent to you the same day. Do not combine the charge for tickets to two different events on the same check. If you do, it will be returned.

**HRA** — Questions about the Hanford Recreation Association should be directed to Denise Prior at 376-2258.

**HRA DISCOUNTS** — Log on to <http://apweb02.rl.gov/hrd/> to find the following new discounts: Columbia Point Golf Course, Casa Chapala (downtown Kennewick and Columbia Center Blvd.), Coco Loco, Grill and Dance Club and Holiday Inn SeaTac.

**HERO POLICY FOR NSF CHECKS** — Associated non-sufficient fund bank fees will be passed on to check issuers. HERO will not absorb the cost.

**SPORTS** — Monies are available in the H.E.R.O. budget for sponsoring team sports. Seventy-five percent of the team must be Fluor Hanford, CH2M HILL Hanford Group, Duratek or PTH employees and their immediate family members. Contact Flu Garza.

**DISCOUNTED MOVIE TICKETS** — Limit now 10 per purchase. Carmike tickets are \$5 each with restrictions applying only to Sony DDS movies. Regal tickets are \$5 each and applicable restrictions are identified in the *Tri-City Herald* with a star. Yakima Mercy tickets are \$5 each with no restrictions. Regal and Carmike tickets are valid in Seattle and Spokane as well as the Tri-Cities. For Regal or Carmike tickets, send checks (no cash) made payable to HERO to Linda Meigs (H3-12), Linda Sheehan (T4-40), Nancy Zeuge (X3-74), Michelle Brown-Palmore (A7-51), Ginny Wallace (S7-03) or Patti Boothe (T6-04). Sunnyside Movie Theater is now offering tickets for two admissions for one show, for \$9.50 with no show restrictions. These tickets are also good for Ellensburg and Walla Walla. For Yakima Mercy or Sunnyside tickets, send checks (no cash) to Nancy Zeuge (X3-74), Jim Hopfinger (S7-39) or Tricia Poland (T5-04).

**2003 ENTERTAINMENT BOOKS ARE AVAILABLE** — The book offers 50-percent-off discounts on great restaurants, hotels, attractions, merchandise and local services, and national values featuring best-known names in retail, travel, cruises, car rentals, and airfare for Kennewick, Pasco, Richland, Cheney, Coeur d'Alene, Lewiston, Post Falls, Prosser, Sandpoint and Spokane. Mail your \$30 check, payable to HERO, to Marvene McChesney at T4-61.

**CHRISTMAS CATALOGS** — The Christmas catalogs are available to order Christmas cards. Send an e-mail message to Marvene McChesney to check a book out.

**CENTRAL WASHINGTON FAIR** — Sept. 27-Oct. 6. Discounted tickets, family packs and carnival books are now available. Discounted tickets are \$7.50 for adults; \$5 for juniors and seniors, \$15 for carnival books, \$38 for family pack, which includes admission, carnival rides, midway games and food discounts. Contact Marvene McChesney (T4-61), Nancy Zuege (X3-74), Cheri McGee (N2-53) or Tricia Poland (T5-04) for more information or to purchase tickets. Make checks payable to HERO.

**HERO-SPONSORED GOLF DAY** — Join us for some "fall brawl" fun on Oct. 25 at Canyon Lakes Golf Course. The shotgun start scramble will begin at 1 p.m. (no handicap necessary). The cost is \$55 per person, which includes greens fees, half a golf-cart rental, one bucket of range balls, a barbecued-steak dinner and one raffle ticket. Prizes will be awarded for KPs, LPs, LDs and accuracy drive plus lots of raf-fle prizes. Get your four-person team together and contact Tricia Poland (T5-04), Pat Jenkins (T5-04) or Joanna Rheinschmidt (T5-15) today to save your spot. Please make checks payable to HERO.

**HOLIDAY SHOPPING WEEKENDS** — Nov. 22-23 and Dec. 6-7. Stay at the Bellevue Inn in downtown Bellevue, close to Bellevue Square, the surrounding shops, restaurants and theaters. HERO has special rates these two weekends — \$59 single/double and \$69 triple/quad (rates are per room, per night, plus tax). For more information, or to sign up, contact Sheila Kirk.

*H.E.R.O. continued on next page.*



## Regular Features



**HOLIDAY IN LIGHTS CRUISE** — Dec. 14-15. The cost is \$110 ppdo. Come and join us for the “Holiday in Lights Show” cruise on Lake Coeur d’Alene. We will board the boat at 4 p.m. The one-hour cruise begins at 4:30 p.m. We will be staying at the Coeur d’Alene Resort. Room assignments are all subject to availability. The resort provides a Sunday breakfast voucher for \$10, which includes gratuity and tax. You may use the voucher toward a full Sunday brunch available for \$21.95 plus tax and gratuity. We will leave the Federal Bldg. parking lot at 7 a.m. and travel to the Valley Mall in Spokane for shopping. We will leave the mall at 2 p.m. and travel to Coeur d’Alene for our 3 p.m. check-in and 4:30 cruise. We will leave the resort at noon on Sunday and return to Richland. A \$25 per person, non-refundable deposit is required to reserve your space. The balance is due by the end of November. Only two buses will be going, so get your deposits in early. Contact Marvene McChesney at T4-61.

**HERO SPONSORED CHRISTMAS PARTY** — Dec. 20, WestCoast Hotel, Pasco. Music will be provided by “Men in the Making.” Circle the date on your calendar. More information will follow in upcoming issues of the *Hanford Reach*.

### UPCOMING TRIPS

- **Lake Tahoe ski trip** — Feb. 23-March 1. The cost is \$899 pp/do, and includes round-trip air from Pasco to Reno, six nights at Harvey’s Resort and Casino with portage. Round-trip transportation is available from Reno to South Lake Tahoe, including driver tip. Lift tickets are for one day of skiing at each of the following locations: Heavenly, Kirkwood, Sierra at Tahoe with bus transportation, and Alpine Meadows with bus transportation. A deposit of \$200 pp is due by Oct. 4. Space is limited. E-mail Sheila Kirk for information.
- **Spring Break eastern Caribbean cruise** — Limited cabins are available. April 5-12. We sail on the Royal Caribbean ship Explorer of the Seas from Miami to Puerto Rico, St. Maarten, St. Thomas and the Bahamas. Prices range from \$790 to \$1,080 per person (based on double occupancy). Deposits are due in October and November. Taxes, transfers and airfare are additional. E-mail Linda Meigs if you’re interested.
- **Ski Park City** — Jan. 26-Feb. 1. Round trip air from Pasco to Salt Lake City, six nights of deluxe accommodations at the Best Western Landmark Inn with daily continental breakfast. Daily après ski get-togethers, portage at the hotel and one day lift tickets (additional) to Park City, the Canyons, Deer Valley, and Snowbasin. Transfers, free local shuttle to town and the main three ski resorts and a blow-out reception or farewell. The price is \$670 ppdo without lift tickets; lift tickets are approximately \$200 extra for all four days of skiing. Tours are offered and luge rides may be a possibility for about \$75 pp. Deposit of \$200 pp is due by Oct. 4, with final payments due Nov. 22. E-mail Linda Meigs today.
- **Californian Odyssey** — April 21-27. Join HERO on a Californian Odyssey. The tour begins with flights from Pasco to San Jose, Calif. You will spend the first three nights in Monterey at the DoubleTree Hotel on the historic plaza at the waterfront. Visit the wine-tasting bars, shops and restaurants, explore the Monterey Bay Aquarium and tour the Carmel Mission. Then it’s on to 90-mile stretch of coast known as Big Sur. We will visit the Piedras Blancas Lighthouse, Hearst Castle, and the Eberle Winery for dinner. The odyssey continues with wine tasting through the Salinas Valley on the way to the Mission San Juan Bautista. On the final day we will visit the Rosicrucian Egyptian Museum and the Winchester Mystery House. The price is \$1,398, which includes round-trip airfare from Pasco to San Jose, guided tour, hotel, and transfers. A deposit of \$200 is due by Dec. 1 to reserve your spot. For more information, e-mail Nancie Simon.
- **Disney World/Disney Cruise** — Oct. 19-26, 2003. The price ranges from \$1,302 to \$1,852 ppdo, depending on the type of room you want. The price includes round-trip airfare from Pasco, four days in Walt Disney World with entrance into all the parks, a three-day cruise to the Bahamas and Castaway Cay (Disney’s private island), taxes and transfers. This trip isn’t due to go until next year, but don’t wait to send in a \$250 deposit to hold your spot. Contact Sheila Kirk for more information. ♦

## Regular Features



### VAN POOLS

Vanpool ads are run for two weeks. Ads must be resubmitted to run in subsequent issues of the *Hanford Reach*. The deadline for submission is Thursday, 10 days prior to publication.

Day and Zimmermann Protection Technology Hanford reminds employees to wear their badges. Vanpool and carpool drivers are responsible for ensuring their passengers are badged. If a passenger forgets his or her security badge, access is denied at the barricade. The individual is required to go to a badging station for a temporary badge or go home to retrieve the badge.

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### KENNEWICK

8x9 vanpool needs riders to 200E. Picks up off Steptoe, Chuck E. Cheese's at 6:05 a.m. and Federal Building at 6:10. Stops include 2750 area, 2719-EA, MO-414, WESF, 2704-HV and anywhere in between. Call **Barb** at 373-2006 or **Bobbie** at 372-0031. 9/16

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### RICHLAND

I would like to start a new vanpool, 8x9s, from the Richland Wye (across from Ben Franklin Bus Lot) to 200W. The van will leave the Richland Wye at 6:10 a.m. and go directly to 200W. The last drop-off is MO-720. All other drop-offs, including along Beloit Ave. (MO-279), T-Plant, and WRAP, are negotiable. If you are interested, call **Debbie Thomas** at 376-1308. 9/23

Van 142 needs drivers! 8x9 shift to 200W, picks up at Richland Wye (across from Ben Franklin bus lot) at 6 a.m. and Uptown Richland (across from Dairy Queen) at 6:08. Currently, drop-offs are at 222 S Lab, T Plant, WRAP, and MO-720. If you are interested, call **Paula Hansen** at 373-2483. 9/23

Van No.117 has openings for 8x9 riders within 200W Area. Departs at 6 a.m. each workday morning from a location just north of Densow's Drugstore at 1019 Wright. Drops off riders at locations near 200W Powerhouse (MO-412, 277-W, MO-287, MO-278, MO-279, MO-556), T Plant and CH2M HILL and Fluor Hanford buildings west of PFP (272-WA, 278-WA, MO-281, MO-720, MO-437, MO-438). We return riders to the location just north of Densow's about 5:10 p.m. Monday-Thursday and at 4:10 on Fridays. Contact **Gary Bush** at 372-2531 or via e-mail. 9/16 ♦



### Hanford ALARA Workshop Golf Tournament

Get your four-person team together and join us for some fun at the Hanford ALARA Workshop Golf Tournament on Oct. 19 at Columbia Point Golf Course. The scrambler tournament will start at 11 a.m. Registration fee is \$45 per person which includes greens fees, cart, range balls, lunch, raffle and prizes. We can place individual golfers and also teams of fewer than four. Register today. Forms are available on the ALARA Workshop Web site at <http://www.hanford.gov/alara/workshop.cfm>, or you can contact Thom Hogg (H5-26) at [Thomas\\_W\\_Thom\\_Hogg@rl.gov](mailto:Thomas_W_Thom_Hogg@rl.gov) or 376-9005. Registration deadline is Oct. 16. ♦